



ANALYTICAL REPORT

Lab Number:	L1715142
Client:	EQ Northeast, Inc. 185 Industrial Road P.O. Box 617 Wrentham, MA 02093
ATTN:	Michael Sciola
Phone:	(508) 384-6151
Project Name:	TRAIN WASH SAMPLE #2
Project Number:	Not Specified
Report Date:	05/17/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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Project Name: TRAIN WASH SAMPLE #2
Project Number: Not Specified

Lab Number: L1715142
Report Date: 05/17/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1715142-01	TRAIN WASH WATER #2 TRACK 3	WATER	CRMF 70R THIRD AVENUE, SOMMERVILLE, MA	05/10/17 10:40	05/10/17

Project Name: TRAIN WASH SAMPLE #2
Project Number: Not Specified

Lab Number: L1715142
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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: TRAIN WASH SAMPLE #2
Project Number: Not Specified

Lab Number: L1715142
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Case Narrative (continued)

Volatile Organics by Method 624

L1715142-01: The sample has elevated detection limits due to the dilution required by the sample matrix.

Sample is cloudy with particles.

The WG1001321-13 LCS recovery for benzene (120%), associated with L1715142-01, is outside Alpha's acceptance criteria, but within the acceptance criteria specified in the method.

Semivolatile Organics

L1715142-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The WG1002336-2 LCS recoveries, associated with L1715142-01, are above the acceptance criteria for di-n-butylphthalate (124%) and di-n-octylphthalate (151%); however, the associated sample is non-detect to the RL for these target analytes. The results of the original analysis are reported.

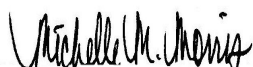
Chromium, Hexavalent

L1715142-01: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG1002271-4 MS recovery (57%), performed on L1715142-01, is outside the acceptance criteria; however, the associated LCS recovery is within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 05/17/17

ORGANICS

VOLATILES

Project Name: TRAIN WASH SAMPLE #2**Lab Number:** L1715142**Project Number:** Not Specified**Report Date:** 05/17/17**SAMPLE RESULTS**

Lab ID: L1715142-01 D
 Client ID: TRAIN WASH WATER #2 TRACK 3
 Sample Location: CRMF 70R THIRD AVENUE, SOMMERVILLE, MA

Date Collected: 05/10/17 10:40
 Date Received: 05/10/17
 Field Prep: Not Specified

Matrix: Water
 Analytical Method: 5,624
 Analytical Date: 05/12/17 12:59
 Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	2.0	--	2
Acrolein ¹	ND		ug/l	16	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	113		80-120
Fluorobenzene	124	Q	80-120
4-Bromofluorobenzene	122	Q	80-120

Project Name: TRAIN WASH SAMPLE #2**Lab Number:** L1715142**Project Number:** Not Specified**Report Date:** 05/17/17

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624
 Analytical Date: 05/12/17 11:51
 Analyst: GT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1001321-14					
Benzene	ND		ug/l	1.0	--
Acrolein ¹	ND		ug/l	8.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	115		80-120
Fluorobenzene	120		80-120
4-Bromofluorobenzene	127	Q	80-120

Lab Control Sample Analysis**Batch Quality Control****Project Name:** TRAIN WASH SAMPLE #2**Lab Number:** L1715142**Project Number:** Not Specified**Report Date:** 05/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1001321-13								
Benzene	120	Q	-		84-116	-		30
Acrolein ¹	72		-		40-160	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	107				80-120
Fluorobenzene	111				80-120
4-Bromofluorobenzene	113				80-120

Matrix Spike Analysis

Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1001321-6 QC Sample: L1714667-01 Client ID: MS Sample												
Methylene chloride	ND	200	260	130	Q	-	-		70-111	-		30
1,1-Dichloroethane	ND	200	270	135	Q	-	-		78-116	-		30
Chloroform	ND	200	260	130	Q	-	-		86-111	-		30
Carbon tetrachloride	12	200	280	134	Q	-	-		60-112	-		30
1,2-Dichloropropane	ND	200	270	135	Q	-	-		83-113	-		30
Dibromochloromethane	ND	200	190	95		-	-		58-129	-		30
1,1,2-Trichloroethane	ND	200	180	90		-	-		80-118	-		30
2-Chloroethylvinyl ether	ND	200	190	95		-	-		69-124	-		30
Tetrachloroethene	ND	200	220	110		-	-		80-126	-		30
Chlorobenzene	ND	200	240	120		-	-		80-126	-		30
Trichlorofluoromethane	ND	200	270	135	Q	-	-		83-128	-		30
1,2-Dichloroethane	ND	200	240	120	Q	-	-		82-110	-		30
1,1,1-Trichloroethane	ND	200	260	130	Q	-	-		72-109	-		30
Bromodichloromethane	ND	200	230	115		-	-		71-120	-		30
trans-1,3-Dichloropropene	ND	200	190	95		-	-		73-106	-		30
cis-1,3-Dichloropropene	ND	200	200	100		-	-		78-111	-		30
Bromoform	ND	200	170	85		-	-		45-131	-		30
1,1,2,2-Tetrachloroethane	ND	200	200	100		-	-		81-122	-		30
Benzene	ND	200	270	135	Q	-	-		84-116	-		30
Toluene	ND	200	230	115		-	-		83-121	-		30
Ethylbenzene	ND	200	250	125	Q	-	-		84-123	-		30
Chloromethane	ND	200	220	110		-	-		70-144	-		30
Bromomethane	ND	200	100	50	Q	-	-		63-141	-		30
Vinyl chloride	ND	200	230	115		-	-		56-118	-		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** TRAIN WASH SAMPLE #2**Project Number:** Not Specified**Lab Number:** L1715142**Report Date:** 05/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1001321-6 QC Sample: L1714667-01 Client ID: MS Sample												
Chloroethane	ND	200	270	135	Q	-	-		74-130	-		30
1,1-Dichloroethene	ND	200	280	140	Q	-	-		77-116	-		30
trans-1,2-Dichloroethene	ND	200	270	135	Q	-	-		81-121	-		30
cis-1,2-Dichloroethene ¹	ND	200	230	115	Q	-	-		85-110	-		30
Trichloroethene	ND	200	250	125	Q	-	-		84-118	-		30
1,2-Dichlorobenzene	ND	200	270	135	Q	-	-		78-128	-		30
1,3-Dichlorobenzene	ND	200	240	120		-	-		77-125	-		30
1,4-Dichlorobenzene	ND	200	240	120		-	-		77-125	-		30
p/m-Xylene ¹	ND	400	460	115		-	-		81-121	-		30
o-Xylene ¹	ND	200	230	115		-	-		81-124	-		30
Styrene ¹	ND	200	230	115		-	-		84-133	-		30
Acetone ¹	120	500	600	96		-	-		40-160	-		30
Carbon disulfide ¹	ND	200	210	105		-	-		54-134	-		30
2-Butanone ¹	ND	500	400	80		-	-		57-116	-		30
Vinyl acetate ¹	ND	400	280	70		-	-		40-160	-		30
4-Methyl-2-pentanone ¹	ND	500	420	84		-	-		79-125	-		30
2-Hexanone ¹	ND	500	410	82		-	-		78-120	-		30
Acrolein ¹	ND	400	290	72		-	-		40-160	-		30
Acrylonitrile ¹	ND	400	360	90		-	-		66-123	-		30
Dibromomethane ¹	ND	200	210	105		-	-		65-126	-		30

Matrix Spike Analysis*Batch Quality Control***Project Name:** TRAIN WASH SAMPLE #2**Lab Number:** L1715142**Project Number:** Not Specified**Report Date:** 05/17/17

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1001321-6 QC Sample: L1714667-01 Client ID: MS Sample

<i>Surrogate</i>	<i>MS % Recovery</i>		<i>Qualifier</i>	<i>MSD % Recovery</i>		<i>Qualifier</i>	<i>Acceptance Criteria</i>
4-Bromofluorobenzene	110						80-120
Fluorobenzene	115						80-120
Pentafluorobenzene	110						80-120

Lab Duplicate Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1001321-5 QC Sample: L1714667-01 Client ID: DUP Sample						
Methylene chloride	ND	ND	ug/l	NC		30
1,1-Dichloroethane	ND	ND	ug/l	NC		30
Chloroform	ND	ND	ug/l	NC		30
Carbon tetrachloride	12	12	ug/l	0		30
1,2-Dichloropropane	ND	ND	ug/l	NC		30
Dibromochloromethane	ND	ND	ug/l	NC		30
1,1,2-Trichloroethane	ND	ND	ug/l	NC		30
2-Chloroethylvinyl ether	ND	ND	ug/l	NC		30
Tetrachloroethene	ND	ND	ug/l	NC		30
Chlorobenzene	ND	ND	ug/l	NC		30
Trichlorofluoromethane	ND	ND	ug/l	NC		30
1,2-Dichloroethane	ND	ND	ug/l	NC		30
1,1,1-Trichloroethane	ND	ND	ug/l	NC		30
Bromodichloromethane	ND	ND	ug/l	NC		30
trans-1,3-Dichloropropene	ND	ND	ug/l	NC		30
cis-1,3-Dichloropropene	ND	ND	ug/l	NC		30
Bromoform	ND	ND	ug/l	NC		30
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC		30
Benzene	ND	ND	ug/l	NC		30
Toluene	ND	ND	ug/l	NC		30
Ethylbenzene	ND	ND	ug/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1001321-5 QC Sample: L1714667-01 Client ID: DUP Sample						
Chloromethane	ND	ND	ug/l	NC		30
Bromomethane	ND	ND	ug/l	NC		30
Vinyl chloride	ND	ND	ug/l	NC		30
Chloroethane	ND	ND	ug/l	NC		30
1,1-Dichloroethene	ND	ND	ug/l	NC		30
trans-1,2-Dichloroethene	ND	ND	ug/l	NC		30
cis-1,2-Dichloroethene ¹	ND	ND	ug/l	NC		30
Trichloroethene	ND	ND	ug/l	NC		30
1,2-Dichlorobenzene	ND	ND	ug/l	NC		30
1,3-Dichlorobenzene	ND	ND	ug/l	NC		30
1,4-Dichlorobenzene	ND	ND	ug/l	NC		30
p/m-Xylene ¹	ND	ND	ug/l	NC		30
o-Xylene ¹	ND	ND	ug/l	NC		30
Xylene (Total) ¹	ND	ND	ug/l	NC		30
Styrene ¹	ND	ND	ug/l	NC		30
Acetone ¹	120	140	ug/l	15		30
Carbon disulfide ¹	ND	ND	ug/l	NC		30
2-Butanone ¹	ND	ND	ug/l	NC		30
Vinyl acetate ¹	ND	ND	ug/l	NC		30
4-Methyl-2-pentanone ¹	ND	ND	ug/l	NC		30
2-Hexanone ¹	ND	ND	ug/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1001321-5 QC Sample: L1714667-01 Client ID: DUP Sample						
Acrolein ¹	ND	ND	ug/l	NC		30
Acrylonitrile ¹	ND	ND	ug/l	NC		30
Dibromomethane ¹	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	108		107		80-120
Fluorobenzene	109		113		80-120
4-Bromofluorobenzene	112		109		80-120

SEMIVOLATILES

Project Name: TRAIN WASH SAMPLE #2
Project Number: Not Specified

Lab Number: L1715142
Report Date: 05/17/17

SAMPLE RESULTS

Lab ID: L1715142-01 D
Client ID: TRAIN WASH WATER #2 TRACK 3
Sample Location: CRMF 70R THIRD AVENUE, SOMMERVILLE, MA

Date Collected: 05/10/17 10:40
Date Received: 05/10/17
Field Prep: Not Specified
Extraction Method: EPA 625
Extraction Date: 05/11/17 07:40

Matrix: Water
Analytical Method: 5,625
Analytical Date: 05/15/17 00:23
Analyst: CB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	ND		ug/l	30	--	10
Butyl benzyl phthalate	ND		ug/l	49	--	10
Di-n-butylphthalate	ND		ug/l	49	--	10
Di-n-octylphthalate	ND		ug/l	49	--	10
Diethyl phthalate	ND		ug/l	49	--	10
Dimethyl phthalate	ND		ug/l	49	--	10
Phenol	ND		ug/l	49	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	61		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	76		33-120

Project Name: TRAIN WASH SAMPLE #2**Lab Number:** L1715142**Project Number:** Not Specified**Report Date:** 05/17/17

Method Blank Analysis Batch Quality Control

Analytical Method: 5,625
 Analytical Date: 05/14/17 21:26
 Analyst: CB

Extraction Method: EPA 625
 Extraction Date: 05/11/17 07:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1002336-1					
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--
Phenol	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	71		33-120

Lab Control Sample Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1002336-2								
Acenaphthene	101		-		47-145	-		30
1,2,4-Trichlorobenzene	97		-		44-142	-		30
Hexachlorobenzene	106		-		1-152	-		30
Bis(2-chloroethyl)ether	95		-		12-158	-		30
2-Chloronaphthalene	101		-		60-118	-		30
3,3'-Dichlorobenzidine	37		-		1-262	-		30
2,4-Dinitrotoluene	122		-		39-139	-		30
2,6-Dinitrotoluene	114		-		50-158	-		30
Fluoranthene	113		-		26-137	-		30
4-Chlorophenyl phenyl ether	100		-		25-158	-		30
4-Bromophenyl phenyl ether ¹	106		-		53-127	-		30
Bis(2-chloroisopropyl)ether	88		-		36-166	-		30
Bis(2-chloroethoxy)methane	101		-		33-184	-		30
Hexachlorobutadiene	92		-		24-116	-		30
Hexachloroethane	91		-		40-113	-		30
Isophorone	105		-		21-196	-		30
Naphthalene	94		-		21-133	-		30
Nitrobenzene	103		-		35-180	-		30
n-Nitrosodi-n-propylamine	101		-		1-230	-		30
Bis(2-Ethylhexyl)phthalate	119		-		8-158	-		30
Butyl benzyl phthalate	121		-		1-152	-		30
Di-n-butylphthalate	124	Q	-		1-118	-		30
Di-n-octylphthalate	151	Q	-		4-146	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1002336-2								
Diethyl phthalate	107		-		1-114	-		30
Dimethyl phthalate	109		-		1-112	-		30
Benzo(a)anthracene	107		-		33-143	-		30
Benzo(a)pyrene	167	Q	-		17-163	-		30
Benzo(b)fluoranthene	167	Q	-		24-159	-		30
Benzo(k)fluoranthene	157		-		11-162	-		30
Chrysene	104		-		17-168	-		30
Acenaphthylene	105		-		33-145	-		30
Anthracene	106		-		27-133	-		30
Benzo(ghi)perylene	83		-		1-219	-		30
Fluorene	102		-		59-121	-		30
Phenanthrene	102		-		54-120	-		30
Dibenzo(a,h)anthracene	84		-		1-227	-		30
Indeno(1,2,3-cd)Pyrene	78		-		1-171	-		30
Pyrene	109		-		52-115	-		30
2,4,6-Trichlorophenol	111		-		37-144	-		30
P-Chloro-M-Cresol ¹	111		-		22-147	-		30
2-Chlorophenol	102		-		23-134	-		30
2,4-Dichlorophenol	118		-		39-135	-		30
2,4-Dimethylphenol	68		-		32-119	-		30
2-Nitrophenol	118		-		29-182	-		30
4-Nitrophenol	76		-		1-132	-		30
2,4-Dinitrophenol	114		-		1-191	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Lab Number: L1715142

Project Number: Not Specified

Report Date: 05/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1002336-2								
4,6-Dinitro-o-cresol ¹	117		-		1-181	-		30
Pentachlorophenol	102		-		14-176	-		30
Phenol	50		-		5-112	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	105				21-120
Phenol-d6	49				10-120
Nitrobenzene-d5	103				23-120
2-Fluorobiphenyl	100				15-120
2,4,6-Tribromophenol	99				10-120
4-Terphenyl-d14	107				33-120

Matrix Spike Analysis

Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002336-3 QC Sample: L1715012-01 Client ID: MS Sample												
Acenaphthene	ND	40	31	78		-	-		47-145	-		30
1,2,4-Trichlorobenzene	ND	40	ND	0		-	-		44-142	-		30
Hexachlorobenzene	ND	40	31	78		-	-		1-152	-		30
Bis(2-chloroethyl)ether	ND	40	34	85		-	-		12-158	-		30
2-Chloronaphthalene	ND	40	31	78		-	-		60-118	-		30
3,3'-Dichlorobenzidine	ND	80	ND	0	Q	-	-		1-262	-		30
2,4-Dinitrotoluene	ND	40	36	90		-	-		39-139	-		30
2,6-Dinitrotoluene	ND	40	33	83		-	-		50-158	-		30
Fluoranthene	ND	40	36	90		-	-		26-137	-		30
4-Chlorophenyl phenyl ether	ND	40	32	80		-	-		25-158	-		30
4-Bromophenyl phenyl ether ¹	ND	40	33	83		-	-		53-127	-		30
Bis(2-chloroisopropyl)ether	ND	40	21	53		-	-		36-166	-		30
Bis(2-chloroethoxy)methane	ND	40	ND	0	Q	-	-		33-184	-		30
Hexachlorobutadiene	ND	40	26	65		-	-		24-116	-		30
Hexachloroethane	ND	40	18	45		-	-		40-113	-		30
Isophorone	ND	40	ND	0	Q	-	-		21-196	-		30
Naphthalene	ND	40	29	73		-	-		21-133	-		30
Nitrobenzene	ND	40	24	60		-	-		35-180	-		30
n-Nitrosodi-n-propylamine	ND	40	ND	0	Q	-	-		1-230	-		30
Bis(2-Ethylhexyl)phthalate	ND	40	39	98		-	-		8-158	-		30
Butyl benzyl phthalate	ND	40	39	98		-	-		1-152	-		30
Di-n-butylphthalate	ND	40	40	100		-	-		1-118	-		30
Di-n-octylphthalate	ND	40	39	98		-	-		4-146	-		30
Diethyl phthalate	ND	40	34	85		-	-		1-114	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002336-3 QC Sample: L1715012-01 Client ID: MS Sample												
Dimethyl phthalate	ND	40	33	83		-	-		1-112	-		30
Benzo(a)anthracene	ND	40	32	80		-	-		33-143	-		30
Benzo(a)pyrene	ND	40	22	55		-	-		17-163	-		30
Benzo(b)fluoranthene	ND	40	35	88		-	-		24-159	-		30
Benzo(k)fluoranthene	ND	40	35	88		-	-		11-162	-		30
Chrysene	ND	40	32	80		-	-		17-168	-		30
Acenaphthylene	ND	40	28	70		-	-		33-145	-		30
Anthracene	ND	40	23	58		-	-		27-133	-		30
Benzo(ghi)perylene	ND	40	36	90		-	-		1-219	-		30
Fluorene	ND	40	33	83		-	-		59-121	-		30
Phenanthrene	ND	40	32	80		-	-		54-120	-		30
Dibenzo(a,h)anthracene	ND	40	35	88		-	-		1-227	-		30
Indeno(1,2,3-cd)Pyrene	ND	40	37	93		-	-		1-171	-		30
Pyrene	ND	40	34	85		-	-		52-115	-		30
2,4,6-Trichlorophenol	ND	40	36	90		-	-		37-144	-		30
P-Chloro-M-Cresol ¹	ND	40	36	90		-	-		22-147	-		30
2-Chlorophenol	ND	40	35	88		-	-		23-134	-		30
2,4-Dichlorophenol	ND	40	27	68		-	-		39-135	-		30
2,4-Dimethylphenol	ND	40	ND	0	Q	-	-		32-119	-		30
2-Nitrophenol	ND	40	26	65		-	-		29-182	-		30
4-Nitrophenol	ND	40	ND	0	Q	-	-		1-132	-		30
2,4-Dinitrophenol	ND	40	ND	0	Q	-	-		1-191	-		30
4,6-Dinitro-o-cresol ¹	ND	40	ND	0	Q	-	-		1-181	-		30
Pentachlorophenol	ND	40	32	80		-	-		14-176	-		30

Matrix Spike Analysis*Batch Quality Control***Project Name:** TRAIN WASH SAMPLE #2**Lab Number:** L1715142**Project Number:** Not Specified**Report Date:** 05/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002336-3 QC Sample: L1715012-01 Client ID: MS Sample												
Phenol	ND	40	ND	0	Q	-	-		5-112	-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	93				10-120
2-Fluorobiphenyl	84				15-120
2-Fluorophenol	58				21-120
4-Terphenyl-d14	93				33-120
Nitrobenzene-d5	62				23-120
Phenol-d6	46				10-120

Lab Duplicate Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Semivolatiles by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002336-4 QC Sample: L1715236-01 Client ID: DUP Sample						
Acenaphthene	ND	ND	ug/l	NC		30
Benzidine ¹	ND	ND	ug/l	NC		30
1,2,4-Trichlorobenzene	ND	ND	ug/l	NC		30
Hexachlorobenzene	ND	ND	ug/l	NC		30
Bis(2-chloroethyl)ether	ND	ND	ug/l	NC		30
2-Chloronaphthalene	ND	ND	ug/l	NC		30
3,3'-Dichlorobenzidine	ND	ND	ug/l	NC		30
2,4-Dinitrotoluene	ND	ND	ug/l	NC		30
2,6-Dinitrotoluene	ND	ND	ug/l	NC		30
Azobenzene ¹	ND	ND	ug/l	NC		30
Fluoranthene	ND	ND	ug/l	NC		30
4-Chlorophenyl phenyl ether	ND	ND	ug/l	NC		30
4-Bromophenyl phenyl ether ¹	ND	ND	ug/l	NC		30
Bis(2-chloroisopropyl)ether	ND	ND	ug/l	NC		30
Bis(2-chloroethoxy)methane	ND	ND	ug/l	NC		30
Hexachlorobutadiene	ND	ND	ug/l	NC		30
Hexachlorocyclopentadiene ¹	ND	ND	ug/l	NC		30
Hexachloroethane	ND	ND	ug/l	NC		30
Isophorone	ND	ND	ug/l	NC		30
Naphthalene	ND	ND	ug/l	NC		30
Nitrobenzene	ND	ND	ug/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Semivolatle Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002336-4 QC Sample: L1715236-01 Client ID: DUP Sample						
NitrosoDiPhenylAmine(NDPA)/DPA ¹	ND	ND	ug/l	NC		30
n-Nitrosodi-n-propylamine	ND	ND	ug/l	NC		30
Bis(2-Ethylhexyl)phthalate	ND	ND	ug/l	NC		30
Butyl benzyl phthalate	ND	ND	ug/l	NC		30
Di-n-butylphthalate	ND	ND	ug/l	NC		30
Di-n-octylphthalate	ND	ND	ug/l	NC		30
Diethyl phthalate	ND	ND	ug/l	NC		30
Dimethyl phthalate	ND	ND	ug/l	NC		30
Benzo(a)anthracene	ND	ND	ug/l	NC		30
Benzo(a)pyrene	ND	ND	ug/l	NC		30
Benzo(b)fluoranthene	ND	ND	ug/l	NC		30
Benzo(k)fluoranthene	ND	ND	ug/l	NC		30
Chrysene	ND	ND	ug/l	NC		30
Acenaphthylene	ND	ND	ug/l	NC		30
Anthracene	ND	ND	ug/l	NC		30
Benzo(ghi)perylene	ND	ND	ug/l	NC		30
Fluorene	ND	ND	ug/l	NC		30
Phenanthrene	ND	ND	ug/l	NC		30
Dibenzo(a,h)anthracene	ND	ND	ug/l	NC		30
Indeno(1,2,3-cd)Pyrene	ND	ND	ug/l	NC		30
Pyrene	ND	ND	ug/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Semivolatiles by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002336-4 QC Sample: L1715236-01 Client ID: DUP Sample						
Biphenyl ¹	ND	ND	ug/l	NC		30
Aniline ¹	ND	ND	ug/l	NC		30
4-Chloroaniline ¹	ND	ND	ug/l	NC		30
1-Methylnaphthalene ¹	ND	ND	ug/l	NC		30
2-Nitroaniline ¹	ND	ND	ug/l	NC		30
3-Nitroaniline ¹	ND	ND	ug/l	NC		30
4-Nitroaniline ¹	ND	ND	ug/l	NC		30
Dibenzofuran ¹	ND	ND	ug/l	NC		30
2-Methylnaphthalene ¹	ND	ND	ug/l	NC		30
Acetophenone ¹	ND	ND	ug/l	NC		30
n-Nitrosodimethylamine ¹	ND	ND	ug/l	NC		30
2,4,6-Trichlorophenol	ND	ND	ug/l	NC		30
P-Chloro-M-Cresol ¹	ND	ND	ug/l	NC		30
2-Chlorophenol	ND	ND	ug/l	NC		30
2,4-Dichlorophenol	ND	ND	ug/l	NC		30
2,4-Dimethylphenol	ND	ND	ug/l	NC		30
2-Nitrophenol	ND	ND	ug/l	NC		30
4-Nitrophenol	ND	ND	ug/l	NC		30
2,4-Dinitrophenol	ND	ND	ug/l	NC		30
4,6-Dinitro-o-cresol ¹	ND	ND	ug/l	NC		30
Pentachlorophenol	ND	ND	ug/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002336-4 QC Sample: L1715236-01 Client ID: DUP Sample						
Phenol	110	130	ug/l	17		30
2-Methylphenol ¹	ND	ND	ug/l	NC		30
3-Methylphenol/4-Methylphenol ¹	ND	110	ug/l	NC		30
2,4,5-Trichlorophenol ¹	ND	ND	ug/l	NC		30
Benzoic Acid ¹	ND	ND	ug/l	NC		30
Benzyl Alcohol ¹	ND	45	ug/l	NC		30
Carbazole ¹	ND	ND	ug/l	NC		30
Pyridine ¹	ND	ND	ug/l	NC		30
n-Decane ¹	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	0	Q	21-120
Phenol-d6	0	Q	0	Q	10-120
Nitrobenzene-d5	0	Q	0	Q	23-120
2-Fluorobiphenyl	0	Q	0	Q	15-120
2,4,6-Tribromophenol	0	Q	0	Q	10-120
4-Terphenyl-d14	0	Q	0	Q	33-120

METALS

Project Name: TRAIN WASH SAMPLE #2**Lab Number:** L1715142**Project Number:** Not Specified**Report Date:** 05/17/17**SAMPLE RESULTS**

Lab ID: L1715142-01

Date Collected: 05/10/17 10:40

Client ID: TRAIN WASH WATER #2 TRACK 3

Date Received: 05/10/17

Sample Location: CRMF 70R THIRD AVENUE, SOMMERV

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Cadmium, Total	0.00524		mg/l	0.00100	--	1	05/11/17 11:36	05/12/17 11:27	EPA 3005A	3,200.8	AM
Lead, Total	0.1044		mg/l	0.00100	--	1	05/11/17 11:36	05/12/17 11:27	EPA 3005A	3,200.8	AM
Zinc, Total	1.363		mg/l	0.01000	--	1	05/11/17 11:36	05/12/17 11:27	EPA 3005A	3,200.8	AM
Low-Level Mercury - Mansfield Lab											
Mercury, Total	0.0094		ug/l	0.0005	--	1	05/17/17 08:10	05/17/17 11:15	EPA 1631E	82,1631E	LC



Project Name: TRAIN WASH SAMPLE #2

Lab Number: L1715142

Project Number: Not Specified

Report Date: 05/17/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1002425-1										
Cadmium, Total	ND		mg/l	0.00100	--	1	05/11/17 11:36	05/12/17 09:13	3,200.8	AM
Lead, Total	ND		mg/l	0.00100	--	1	05/11/17 11:36	05/12/17 09:13	3,200.8	AM
Zinc, Total	ND		mg/l	0.01000	--	1	05/11/17 11:36	05/12/17 09:13	3,200.8	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Low-Level Mercury - Mansfield Lab for sample(s): 01 Batch: WG1004299-1										
Mercury, Total	ND		ug/l	0.0005	--	1	05/17/17 08:10	05/17/17 10:37	82,1631E	LC

Prep Information

Digestion Method: EPA 1631E

Lab Control Sample Analysis

Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1002425-2								
Cadmium, Total	112		-		85-115	-		
Lead, Total	107		-		85-115	-		
Zinc, Total	106		-		85-115	-		
Low-Level Mercury - Mansfield Lab Associated sample(s): 01 Batch: WG1004299-2 SRM Lot Number: HG-LOW								
Mercury, Total	100		-		77-123	-		24

Matrix Spike Analysis **Batch Quality Control**

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002425-3 QC Sample: L1715042-01 Client ID: MS Sample												
Cadmium, Total	ND	0.051	0.05366	105		-	-		70-130	-		20
Lead, Total	0.0018	0.51	0.5301	104		-	-		70-130	-		20
Zinc, Total	0.1004	0.5	0.6007	100		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002425-5 QC Sample: L1715058-01 Client ID: MS Sample												
Cadmium, Total	ND	0.051	0.05675	111		-	-		70-130	-		20
Lead, Total	ND	0.51	0.5306	104		-	-		70-130	-		20
Zinc, Total	ND	0.5	0.5221	104		-	-		70-130	-		20
Low-Level Mercury - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1004299-3 WG1004299-4 QC Sample: L1715138-01 Client ID: MS Sample												
Mercury, Total	0.0173	0.005	0.0225	104		0.0226	106		71-125	0		24

Lab Duplicate Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002425-4 QC Sample: L1715042-01 Client ID: DUP Sample						
Lead, Total	0.0018	0.00183	mg/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002425-6 QC Sample: L1715058-01 Client ID: DUP Sample						
Cadmium, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: TRAIN WASH SAMPLE #2

Lab Number: L1715142

Project Number: Not Specified

Report Date: 05/17/17

SAMPLE RESULTS

Lab ID: L1715142-01
 Client ID: TRAIN WASH WATER #2 TRACK 3
 Sample Location: CRMF 70R THIRD AVENUE, SOMMERV
 Matrix: Water

Date Collected: 05/10/17 10:40
 Date Received: 05/10/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	72.		mg/l	1.0	NA	1	-	05/12/17 03:20	121,2540D	VB
Oil & Grease, Hem-Grav	ND		mg/l	5.6	--	1.4	05/12/17 16:00	05/12/17 21:00	74,1664A	ML
Chromium, Hexavalent	ND		mg/l	0.050	--	5	05/11/17 00:15	05/11/17 01:11	1,7196A	KA



Project Name: TRAIN WASH SAMPLE #2

Lab Number: L1715142

Project Number: Not Specified

Report Date: 05/17/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1002271-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	05/11/17 00:15	05/11/17 01:08	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1002711-1										
Solids, Total Suspended	ND		mg/l	1.0	NA	1	-	05/12/17 03:20	121,2540D	VB
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1003009-1										
Oil & Grease, Hem-Grav	ND		mg/l	4.0	--	1	05/12/17 16:00	05/12/17 21:00	74,1664A	ML

Lab Control Sample Analysis

Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1002271-2								
Chromium, Hexavalent	92		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1003009-2								
Oil & Grease, Hem-Grav	85		-		78-114	-		18

Matrix Spike Analysis

Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Lab Number: L1715142

Project Number: Not Specified

Report Date: 05/17/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002271-4 QC Sample: L1715142-01 Client ID: TRAIN WASH WATER #2 TRACK 3

Chromium, Hexavalent	ND	0.5	0.283	57	Q	-	-		85-115	-		20
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General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1003009-4 QC Sample: L1714835-01 Client ID: MS Sample

Oil & Grease, Hem-Grav	ND	47.1	42	90		-	-		78-114	-		18
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Lab Duplicate Analysis Batch Quality Control

Project Name: TRAIN WASH SAMPLE #2

Project Number: Not Specified

Lab Number: L1715142

Report Date: 05/17/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002271-3 QC Sample: L1715142-01 Client ID: TRAIN WASH WATER #2 TRACK 3						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002711-2 QC Sample: L1714998-02 Client ID: DUP Sample						
Solids, Total Suspended	610	520	mg/l	16		29
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1003009-3 QC Sample: L1714834-01 Client ID: DUP Sample						
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC		18

Project Name: TRAIN WASH SAMPLE #2**Project Number:** Not Specified**Lab Number:** L1715142**Report Date:** 05/17/17**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1715142-01A	Vial Na2S2O3 preserved	A	N/A	2.1	Y	Absent	624(3)
L1715142-01B	Vial Na2S2O3 preserved	A	N/A	2.1	Y	Absent	624(3)
L1715142-01C	Vial Na2S2O3 preserved	A	N/A	2.1	Y	Absent	624(3)
L1715142-01E	Plastic 250ml HNO3 preserved	A	<2	2.1	Y	Absent	CD-2008T(180),ZN-2008T(180),PB-2008T(180)
L1715142-01F	Amber 1000ml HCl preserved	A	N/A	2.1	Y	Absent	OG-1664(28)
L1715142-01G	Amber 1000ml HCl preserved	A	N/A	2.1	Y	Absent	OG-1664(28)
L1715142-01H	Plastic 950ml unpreserved	A	7	2.1	Y	Absent	TSS-2540-LOW(7)
L1715142-01J	Amber 1000ml Na2S2O3	A	7	2.1	Y	Absent	625(7)
L1715142-01K	Amber 1000ml Na2S2O3	A	7	2.1	Y	Absent	625(7)
L1715142-01L	Plastic 250ml unpreserved	A	7	2.1	Y	Absent	HEXCR-7196(1)
L1715142-01M	Teflon 250ml HCl preserved	A	<2	2.1	Y	Absent	A2-HG-1631(28)

*Values in parentheses indicate holding time in days

Project Name: TRAIN WASH SAMPLE #2**Lab Number:** L1715142**Project Number:** Not Specified**Report Date:** 05/17/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: Data Usability Report



Project Name: TRAIN WASH SAMPLE #2**Lab Number:** L1715142**Project Number:** Not Specified**Report Date:** 05/17/17**Data Qualifiers**

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: TRAIN WASH SAMPLE #2
Project Number: Not Specified

Lab Number: L1715142
Report Date: 05/17/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
- 74 Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.
- 82 Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Atomic Fluorescence Spectrometry. USEPA Office of Water, EPA Method 1631 Revision E, EPA-821-R-02-019, August 2002.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

PAGE 1 OF 5

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client: US Ecology

Address: 190 Industrial Rd
Wrentham, MA

Phone: 508-384-6151

Email: Mike.Scipio@usecalogy.com

Additional Project Information:

Please Analyze by Method listed on APH Quote 2910. Page 3 of 5 Attached. Please c.c.: mrambelle@cdwconsulting.com / Dean.Hazle@keolis.com

Project Information

Project Name: Train Wash Sample #2

Project Location: CRMF 70 R Third Ave Somerville, MA

Project #:

Project Manager:

ALPHA Quote #: 2910

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection

Date	Time
------	------

Sample Matrix

Sampler
Initials

Date Rec'd in Lab: 5/10/17

Report Information - Data Deliverables

☐ ADE_x ☐ EMAIL**ALPHA Job #:**

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program _____ Criteria

[illegible]

	TOTAL #	BOTTLES
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
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99	1	1
100	1	1

Container Type

P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative

A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H = Na₂S₂O₃
I= Ascorbic Acid
J = NH₄Cl
K= Zn Acetate
O= Other

Container Type

Preservative

Relinquished By:

Date/Time

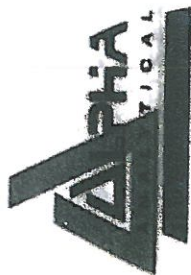
Received By:

Date/Time

All samples submitted are subject to Alpha's Terms and Conditions.
See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

2 of 5



April 28, 2017

Marian Rambelle
CDW Consultants, Inc.
40 Speen Street
Suite 301
Framingham, MA 01701

Subject: Train Wash Water
Alpha Quote Number: 2910

Dear Marian,

Alpha Analytical is pleased to provide the following analytical cost proposal. A table with the project pricing is attached. Thank you for this opportunity. If you have any questions, or concerns, you may reach me directly at 508-439-5157.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Dave Sanford'.

Dave Sanford
Project Manager
Attachment



Date April 28, 2017
 Subject Train Wash Water
 Quote # 2910

Water					
PARAMETER	METHOD	# OF SAMPLES	UNIT RATE	EXTENDED TOTAL	
VOA EPA 624, Acrolein and Benzene	624	3	\$137.00	\$411.00	
ABN EPA 625, Phenol and Phthalates	625	3	\$236.00	\$708.00	
Total Mercury (AF)	1631E	3	\$110.00	\$330.00	
Total Cadmium - EPA 200.8	200.8	3	\$12.00	\$36.00	
Hexavalent Chromium - EPA 7196	7196A	3	\$20.00	\$60.00	
Oil & Grease-Hexane Method - EPA 1664	1664A	3	\$110.00	\$330.00	
Total Lead - EPA 200.8	200.8	3	\$12.00	\$36.00	
Total Suspended Solids - SM 2540 (low level)	2540D	3	\$19.00	\$57.00	
Total Zinc - EPA 200.8	200.8	3	\$12.00	\$36.00	
TOTAL				\$2004.00	
PROJECT TOTAL				\$2004.00	

1. Laboratory method blanks, laboratory control spikes (LCS/LCSD) are analyzed at no additional cost. If trip blanks, or other field QC such as matrix spikes (MS/MSD), duplicates, or field blanks/equipment blanks are required, they are billed at the unit prices.
2. Samples are disposed 21 days after invoicing unless prior arrangements have been made. Samples that require storage beyond 21 days will be billed a storage fee of \$5.00/sample/month for extended and monitored frozen storage.
3. Bottles, preservatives, and coolers will be provided at no additional cost.
4. Laboratory reporting limits (RLs) are based on clean, 100% dry reference material. Lab RLs as compared to State, Federal, QAPP, or other project criteria do not represent a guarantee. Actual field sample results will differ depending on site-specific field conditions and various factors such as high moisture, high levels of sulfur and/or organic matter, and high concentrations of non-target and/or target analytes.
5. Samples cannot be logged in and turnaround time clock will not start until any ambiguities are resolved. Surcharge fees will be applied when response is not received within 24 hours and original requested turnaround time is still required.
6. Any samples that are received on hold and are not analyzed will incur a \$50 fee per batch of samples. (Batch defined as up to 20 samples.)

4 of 5



Date April 28, 2017

Subject Train Wash Water

Quote # 2910

7. Turnaround time is an estimate and may vary depending on laboratory capacity at the time of sample receipt. Alpha Analytical reserves the right to revise the turnaround time accordingly, should the scope and/or schedule of the project change.



Terms & Conditions

In the absence of a written agreement to the contrary, this order constitutes an acceptance by the Client of Alpha Analytical, Inc. (ALPHA)'s offer to do business under these Terms and Conditions, and agrees to be bound by these conditions. Any terms and conditions from Client's that do not conform to the terms and conditions contained herein shall be deemed invalid and unenforceable, unless accepted in writing by ALPHA. Any provisions of Terms and Conditions held in violation of any law or ordinance shall be stricken, and all remaining provisions shall continue valid and binding. This order shall not be valid unless it contains sufficient specifications to enable ALPHA to carry out the Client's requirements. Samples must be accompanied by: a) adequate instruction as to the quantity and type of analysis requested, and b) reporting and billing address information. Upon timely delivery of samples, ALPHA will use its best efforts to meet mutually agreed turnaround times, calculated from the point in time when ALPHA has determined that it can proceed with the defined work to be done (Sample Delivery Acceptance). The Client is required to respond to questions about the order within one business day of request by ALPHA. If the Client does not respond within one business day, the turnaround time for any deliverables will be extended by the same number of business days ALPHA was delayed in receiving a response from the Client. ALPHA reserves the right, to refuse or revoke Sample Delivery Acceptance for any sample which in the sole judgment of ALPHA: a) is unsuitable volume; b) may pose a risk or become unsuitable for handling, transport or processing for any health, safety, environmental or any other reason; c) holding times cannot be met due to passage of more than 48 hours from the time of sampling or $\frac{1}{2}$ the holding time for the requested test, whichever is less.

Client agrees to pay for all applicable charges to process this order. Prices do not include sales tax. Applicable sales tax will be added to invoices where required by law. Payment in advance is required for all Clients except those whose credit has been established with ALPHA. For Clients with approved credit, payment terms are Net 30 days from the date of the invoice by ALPHA unless other payment terms are agreed to in writing. All overdue payments are subject to an interest and service charge of one and one half percent (1.5%) (Or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of third parties will not be accepted without a prepayment from the third party or a signed credit agreement from the third party that acknowledges and accepts payment responsibility. ALPHA may suspend work and withhold delivery of data under this order at any time in the event that the Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. Data or information provided to ALPHA or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by ALPHA of payment for the entire Order.

ALPHA will use analytical methodologies which are in substantial conformity with published test methods. ALPHA has implemented these methods in its Laboratory Quality Manuals and referenced Standard Operating Procedures where the nature or composition of the samples requires it. ALPHA reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of ALPHA. Deviations, if any, will be made on a basis consistent with the recognized standards of the industry and/or ALPHA's Laboratory Quality Manuals. Client may request that ALPHA perform according to a mutually agreed upon Quality Assurance Project Plan (QAPP). In the event that samples arrive without a prior agreement on a QAPP, ALPHA will proceed with analyses under its standard Quality Manuals then in effect, and ALPHA will not be responsible for any re-sampling or other changes if work must be repeated to comply with the subsequently finalized QAPP.

ALPHA's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100.00. All claims, including those for negligence, shall be deemed waived unless suit therein is filed within one year after ALPHA's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall ALPHA be responsible for loss of use, loss of profits or for any special, indirect, incidental or consequential damages occasioned by the services performed by application or use of the reports prepared.

In no event shall ALPHA have any responsibility or liability to the Client for any failure or delay in performance by ALPHA which results, directly or indirectly in whole or in part, from any cause or circumstance beyond the reasonable control of ALPHA.

ALPHA shall dispose of the Client's samples 21 calendar days after the analytical report is issued, unless instructed to store them for an alternate period of time or return such samples to the Client. The return of samples will be at the Client's own expense.



145 Flanders Road, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com

Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA

